

5.0- چکیده انگلیسی:

Investigation of Effect of Root powder of KOMA (*Ferula Ovina*) on Healing of Indomethacin-Induced Gastric Inflammation and Peptic Ulcer in Male Rats

Background and Objective: Although *Ferula* spices have been used in traditional medicine, but its therapeutic effects on gastric ulcer are not yet known in new medicine. In this study we examined the healing effects of root powder *Ferula Ovina* against indomethacin-induced gastric ulcer in male rats.

Materials and Method: In this experimental study 56 male rats (280-320gr) were randomly divided to four treatment groups (n=8) and three control groups. 72h after fasting, indomethacin (30mg/kg) administrated orally in all groups (except in normal control). After 5h, root powder suspension administrated in four dose (125, 250, 500, 1000mg/kg) and In positive control groups administrated omeprazole (20mg/kg) orally and in normal control administrated equal distilled water two time per day for two weeks. In negative control group, treatment intervention is not performed. After completion of treatment period (after two weeks), animals were killed and the stomach ulcer were examined both macroscopically and microscopically. Serum levels of Pepsinogen, gastrin, liver marker enzymes and blood cells have measured.

Results: All different concentration of *Ferula* root powder suspension were effective in treating on gastric ulcer especially those with concentration 250, 500 and 1000 mg/kg which showed to be the most effective ones (100%). Only in dose 125 stomach ulcer observed in 2 of 6 mouse (33.33%). In omeprazole group healing of ulcer was observed in 2 of 5 rats (40%). All animals in negative control group expired without any effective in treating on gastric ulcer. Statistical analysis was shown significant difference between treatment groups and omeprazole group and negative control ($P < 0.05$)

Conclusion: our results suggest that root powder of *Ferula Ovina* is more effective to the healing of indomethacin-induced ulcer compared to omeprazole.

Keywords: Peptic Ulcer, *Ferula*, Indomethacin, Omeprazole